

MULTIMEDIA



UNIVERSITY

STUDENT ID NO

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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2018/2019

DCS5018 – COMPUTER SYSTEMS & APPLICATIONS (DIT & DBIS)

4 MARCH 2019
2:30 p.m. – 4:30 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of **4 pages**.
2. Answer **ALL** questions in **Section A** on the **OMR sheet**.
3. Answer **ALL** questions in **Section B** in the **Answer Booklet**.

Section A: 10 Multiple Choice Questions (10 marks)

Instruction: Shade your answers on the OMR sheet.

1. A self-contained computer device that have their own programming that typically do not receive input from users or interact with other systems is known as _____.
 - A. mainframe
 - B. supercomputer
 - C. minicomputer
 - D. embedded computer
2. Below are the examples of input device **EXCEPT** _____.
 - A. joysticks
 - B. touchpad
 - C. stylus
 - D. clip-on mic
3. Which of the following characteristics is **NOT TRUE** about laser printer?
 - A. Affordable
 - B. Faster printing speed
 - C. Uses laser beams
 - D. Higher quality printouts
4. _____ controls all functions of the computer's component and processes all commands and instructions.
 - A. Read-only memory (ROM)
 - B. Central Processing Unit (CPU)
 - C. Random-access memory (RAM)
 - D. Cache
5. _____ can achieve fast transfer speeds of up to 10 Gb/s.
 - A. FireWire 800
 - B. Thunderbolt port
 - C. USB port
 - D. Connectivity port
6. Which of the following website is business-related social networking site?
 - A. Facebook
 - B. Twitter
 - C. LinkedIn
 - D. Instagram
7. Below are some guidelines to ensure your online shopping experience is safe **EXCEPT** _____.
 - A. make online transaction using public computers
 - B. shop at well-known and reputable sites
 - C. check the beginning of URL changes from "http" to "https"
 - D. create a strong password for online accounts

Continued...

8. Which of the following top-level domain indicates that website can be used by anyone?
- A. .org
 - B. .gov
 - C. .edu
 - D. .com
9. _____ is a program where it visits many sites simultaneously and collects data on the web.
- A. Indexer
 - B. Search engine
 - C. Spider
 - D. Metasearch engine
10. Which of the following aspects is important when evaluating a website to be used for research?
- A. Links
 - B. Audience
 - C. Bias
 - D. All of the above.

Section B: 4 Structured Questions (40 marks)

Instruction: Write your answers in the Answer Booklet.

Question 1

- a) Alice is making presentation slides for her Final Year Project. Suggest **FOUR** tips for her to design a great presentation. (2 marks)
- b) When we install a software to a computer, we usually will be guided by wizard. Briefly explain how a wizard works. (1 mark)
- c) Generally, a user accepts an agreement which is known as software license before installing the software on the machine. List **FOUR** criteria that stated in the agreement. (2 marks)
- d) Discuss **THREE** solutions when RAM has limited capacity and not enough room to store the required instructions and data. (3 marks)
- e) Briefly describe the function of the following system maintenance utilities:
- i. Disk Cleanup (1 mark)
 - ii. Disk Defragmenter (1 mark)

[TOTAL 10 MARKS]

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Question 2

- a) Machine cycle is a process where the CPU always goes through the same series of steps when performing a program instruction. Discuss the **FOUR** steps that involved in the machine cycle.
(4 marks)
- b) List **TWO** procedures that can be taken to ensure the system reliability.
(1 mark)
- c) Differentiate between satellite broadband and mobile broadband.
(2 marks)
- d) Briefly explain the difference between client/server network and peer-to-peer network.
(3 marks)

[TOTAL 10 MARKS]

Question 3

- a) Smartphone is one of the important devices in our lifestyle nowadays. Briefly explain how the digital processing of a cell phone technology works when you speak into a cell phone.
(3 marks)
- b) Define **TWO** main ways to transfer information to a computer or phone.
(2 marks)
- c) Suggest **TWO** ways on how firewalls can protect a computer from hacker.
(2 marks)
- d) Differentiate between malware, adware and spyware.
(3 marks)

[TOTAL 10 MARKS]

Question 4

- a) Draw the **SIX** steps in System Development Life Cycle (SDLC) model.
(3 marks)
- b) A proposed system is often documented using flowcharts and data-flow diagrams. Differentiate between flowcharts and data-flow diagrams.
(2 marks)
- c) List **FOUR** main operations in Database Management Systems (DBMS).
(2 marks)

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d) Briefly discuss the function of the following types of report:

- i. Detail report
- ii. Summary report
- iii. Exception report

(3 marks)

[TOTAL 10 MARKS]

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